L175™ FLOOR POLISHER

Owners Guide

Contents:

1 Warnings - Product Description

2 Operation / Maintenance / Service

4 Wiring Diagrams

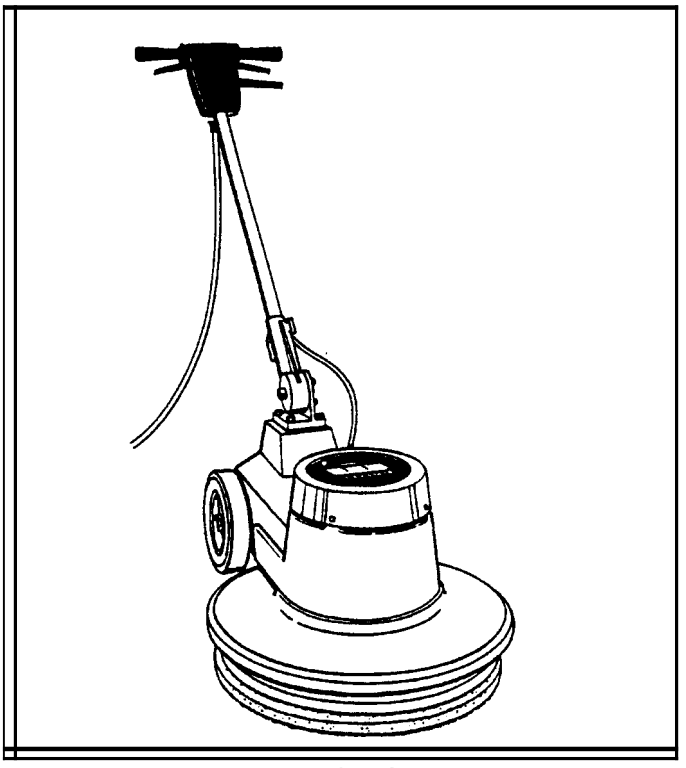
5 Motor, Frame, Driver Assembly

6 Cover Assembly

7 Handle Assembly

9 Trouble Shooting

10 Warranty



QUEST™ ISO 9001

"Windsor Industries' Quality Management System is certified ISO 9001"

Windsor Quality, it's all about You!

⚠ WARNING OF POTENTIAL INJURY:

This product contains moving parts. To reduce the risk of injury unplug the machine before servicing.

Whenever repairs are made ensure electrical connections are correct and wiring matches **APPROPRIATE** diagram before plugging machine into an electrical outlet.

CAUTION:

1.) See the Owner's Guide for complete operating instructions.

2.) Maintenance and repairs must only be done by qualified personnel.

3.) Using non-Windsor parts to repair this machine will void the warranty.

Record model and serial number located on data label. Refer to these numbers when calling Windsor dealer for parts or service.

MODEL : _____

SERIAL NO. : _____

PURCHASE DATE : _____

WINDSOR® INDUSTRIES, INC., 1351 W. Stanford Ave., Englewood CO 80110 USA *303-762-1800*FAX 303-762-0817

INSPECTION

Please carefully unpack and inspect your machine for shipping damage. Each unit is operated and thoroughly inspected before shipment, and any damage is the responsibility of the delivering carrier who should be notified immediately.

ELECTRICAL

This rotary polisher is designed to operate on a standard 15 amp, 115 volt, 60 hz, AC household current. Check that the voltage shown on the serial number plate is suitable for the supply available. Voltages below 105 volts or above 125 volts could cause damage to the motor.
NOTE: 230/250 volt 50 hz models are available.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING:

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A below. A temporary adaptor that looks like the adaptor in "Fig . C" below may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B below, if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

PROPER GROUNDING CONNECTION

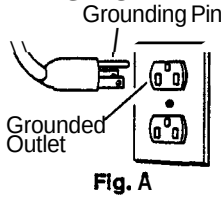


Fig. A

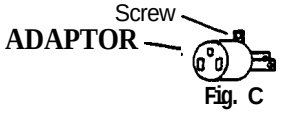


Fig. C

GROUNDING CONNECTION USING *AN* ADAPTOR

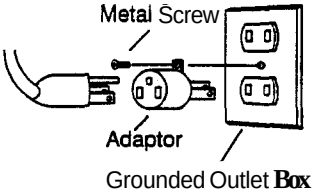


fig. B

NOTE: Adaptors are not allowed In Canada.

OPERATION

CAUTION: For indoor Use Only.

To prevent possible damage to the floor when using the Brush option, use water or other approved cleaning solution while operating.

When using the pad optloln, always keep the machine moving when In contact with the floor.

WARNING:

HIGH STARTING TORQUE.
HOLD MACHINE FIRMLY WITH BOTH HANDS.

1) Ensure that the pad driver or brush is installed correctly and in good shape. Install or change pad if necessary **(See Page 3 for detail of Installation).**

2) Plug the machine into a wall outlet as described in the grounding instructions.

3) Lower the handle by unlocking the adjustment handle and moving the handle into position. Relock the handle when it is in a comfortable position.

4) Check to be sure the pad driver or brush is installed before starting.

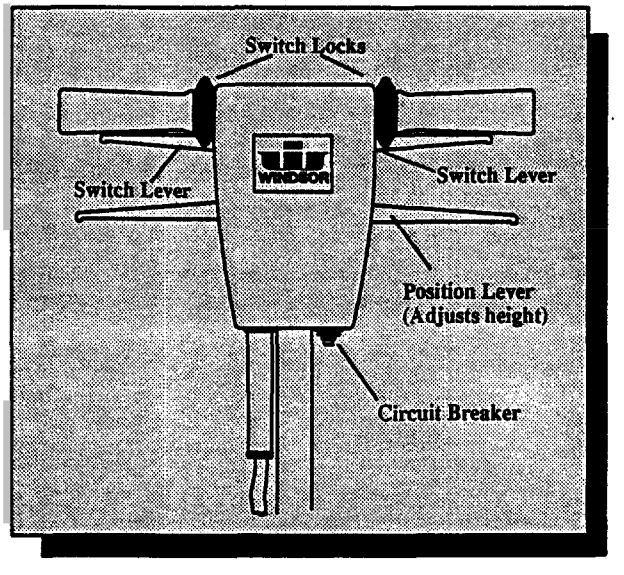
5) With the switch lock(s) rotated forward, squeeze one of the switch levers, turning the machine on. (These levers can be operated independently of each other)

6) To stop the machine, release the switch lever and switch lock.

NOTE The machine is equipped with a circuit breaker to protect the motor in the event an overload condition occurs. The circuit breaker is located at the bottom of the switch housing. Push the reset button to restart the machine. If the breaker trips again, correct the cause of overloading before proceeding.

7) Do not let machine rest on pad. When finished with the machine for the day return handle to the storage position. Be sure to leave machine in a safe place where there is no risk of being tipped over.

CONTROLS



NOTE: In the following instructions all letter designations, IE: A will be shown in the upcoming graphical examples in this guide.

MAINTENANCE INSTRUCTIONS FOR THE L175 SERIES OF FLOOR SCRUBBERS

WARNING: Remove machine power cord from electrical source before making any adjustments or repairs to the machine. **Only qualified maintenance personnel are to perform repairs.**

MOTOR

1. Remove **(4)** screws holding motor cover to ABS housing. A
2. Use compressed air to remove lint and dust accumulation from motor windings.

MOTOR-GEAR UNIT ASSEMBLY

1. Remove **(4)** bolts holding handle bracket B and lay aside. Lift off plastic motor shroud.
2. Tip machine back and remove **(4)** bolts holding brush cover and gear unit to chassis. C Lift out motor and gear unit assembly.

NOTE: The machine has a vulcanized steel drive coupling located between the motor and gear unit. The coupling can usually be replaced by removing the motor cover and lifting out the armature. If the lower armature bearing remains in gear unit adapter plate, it will have to be removed from the gear box to access the bearing for removal.

3. Remove **(4)** motor thru bolts D and lift off motor cover. Remove armature and field from gear unit adapter plate.

GEAR UNIT

1. Remove (6) screws from adapter plate. E
2. Use pry bars to seperate gear unit from adapter plate.
3. Remove (6) screws from gear unit cover. F Remove cover. Repair as needed.

NOTE: The maximum capacity of the gear unit is 10ozs. Use gearbox grease Dubois MPG #2 or COOR's Coorplex #3.

WHEELS

1. Remove wheels every 2 to 3 moths. Clean axle an apply a small amount of silicone lubricant. Reinstall wheels.

DAILY MAINTENANCE:

(At the end of each working day):

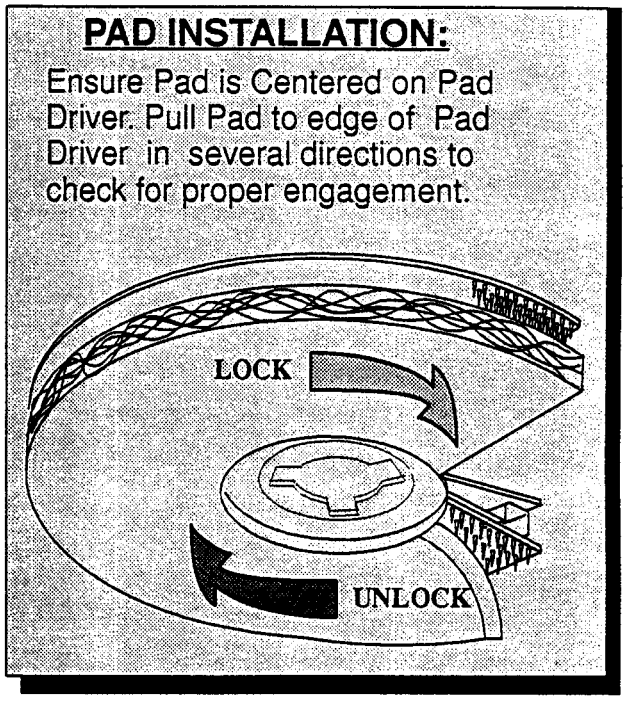
1. Inspect power cord for wear. To prevent electrical shock replace cords with frayed or cracked insulation immediately.
2. Place machine in the storage position.
3. Check pad condition. Change if soiled or torn,

PADS:

Only standard 1/2 inch thick pads suitable for low speed burnishing are recommended.

PAD DRIVER/BRUSH INSTALLATION:

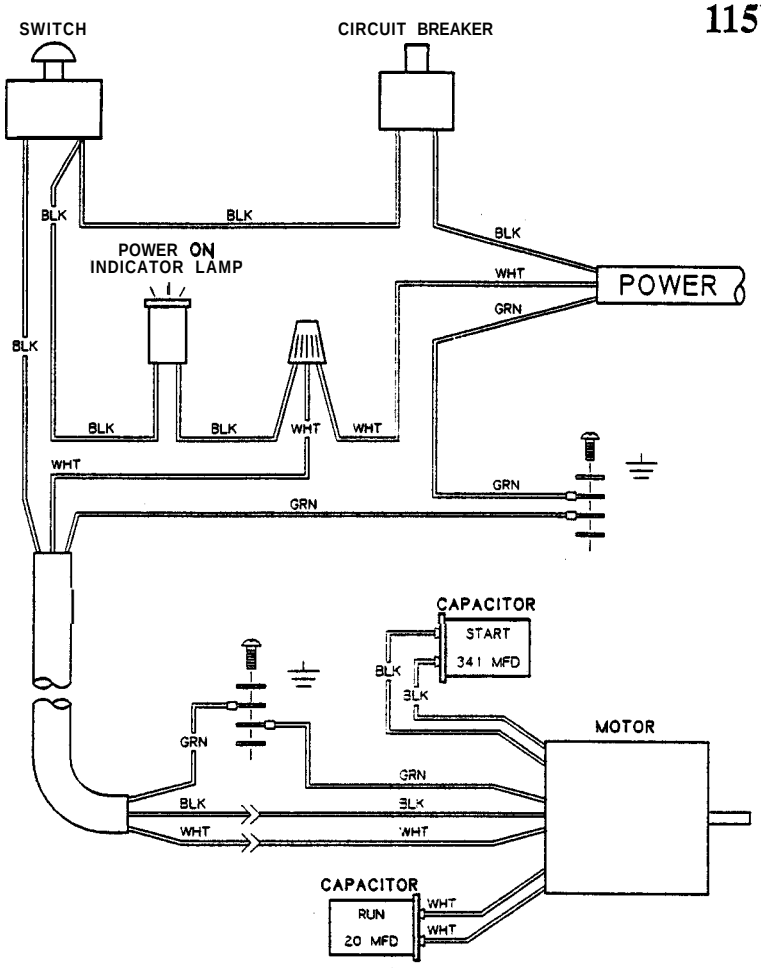
1. Lay machine back on the ground, exposing the underside.
2. Place pad driver or brush on the motor lug and rotate clockwise until engaged. To remove, turn Counter-clockwise.


PAD INSTALLATION:
Ensure Pad is Centered on Pad Driver. Pull Pad to edge of Pad Driver in several directions to check for proper engagement.
LOCK
UNLOCK

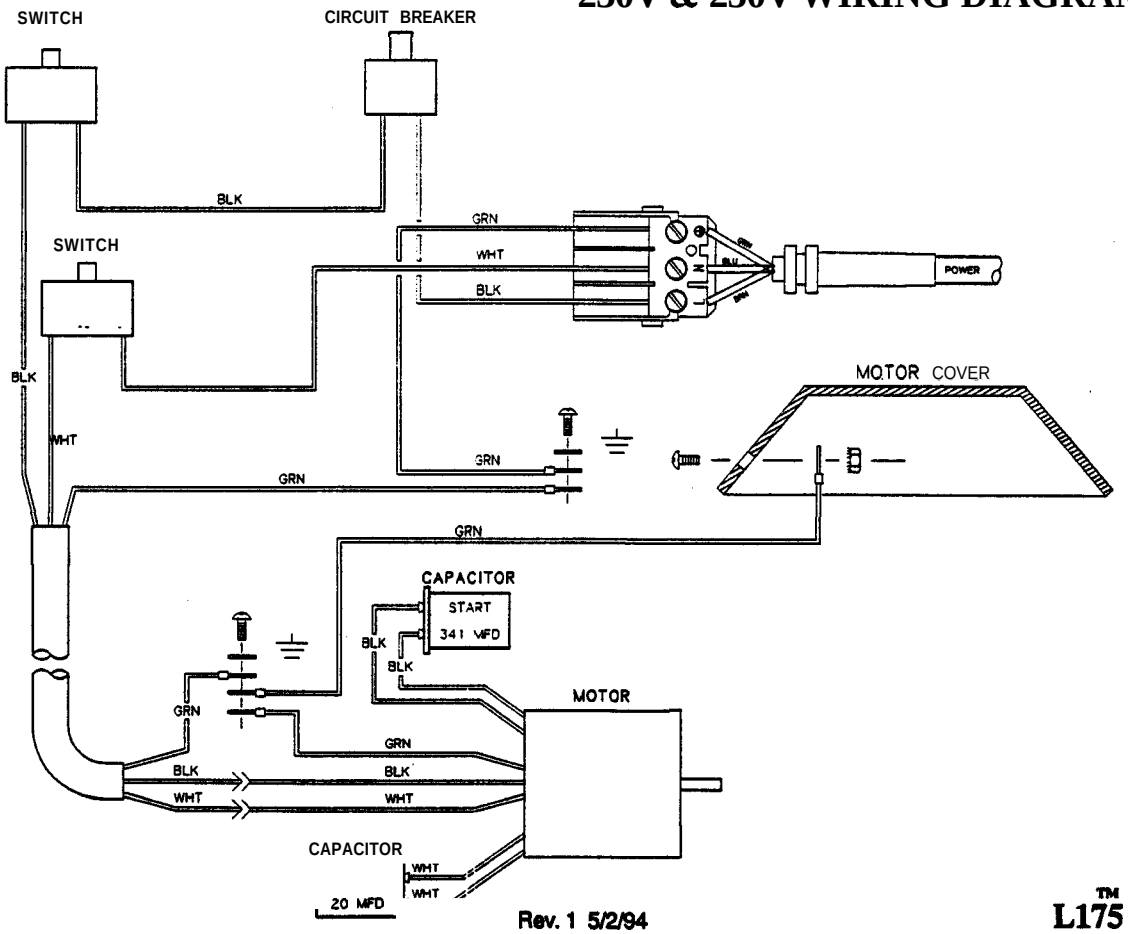
NOTES:

WINDSOR®
We supply the power

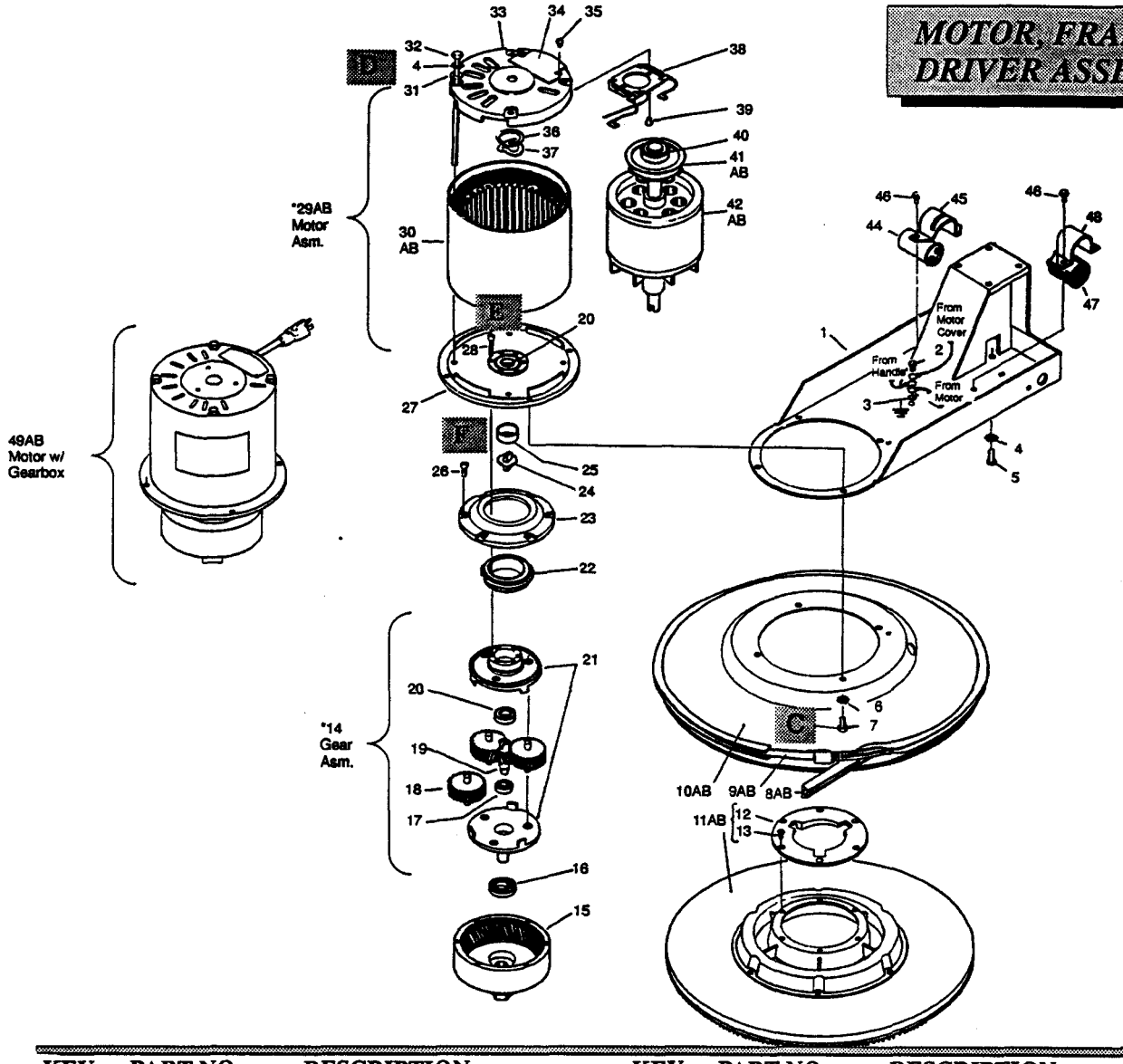
115V WIRING DIAGRAM



230V & 250V WIRING DIAGRAM

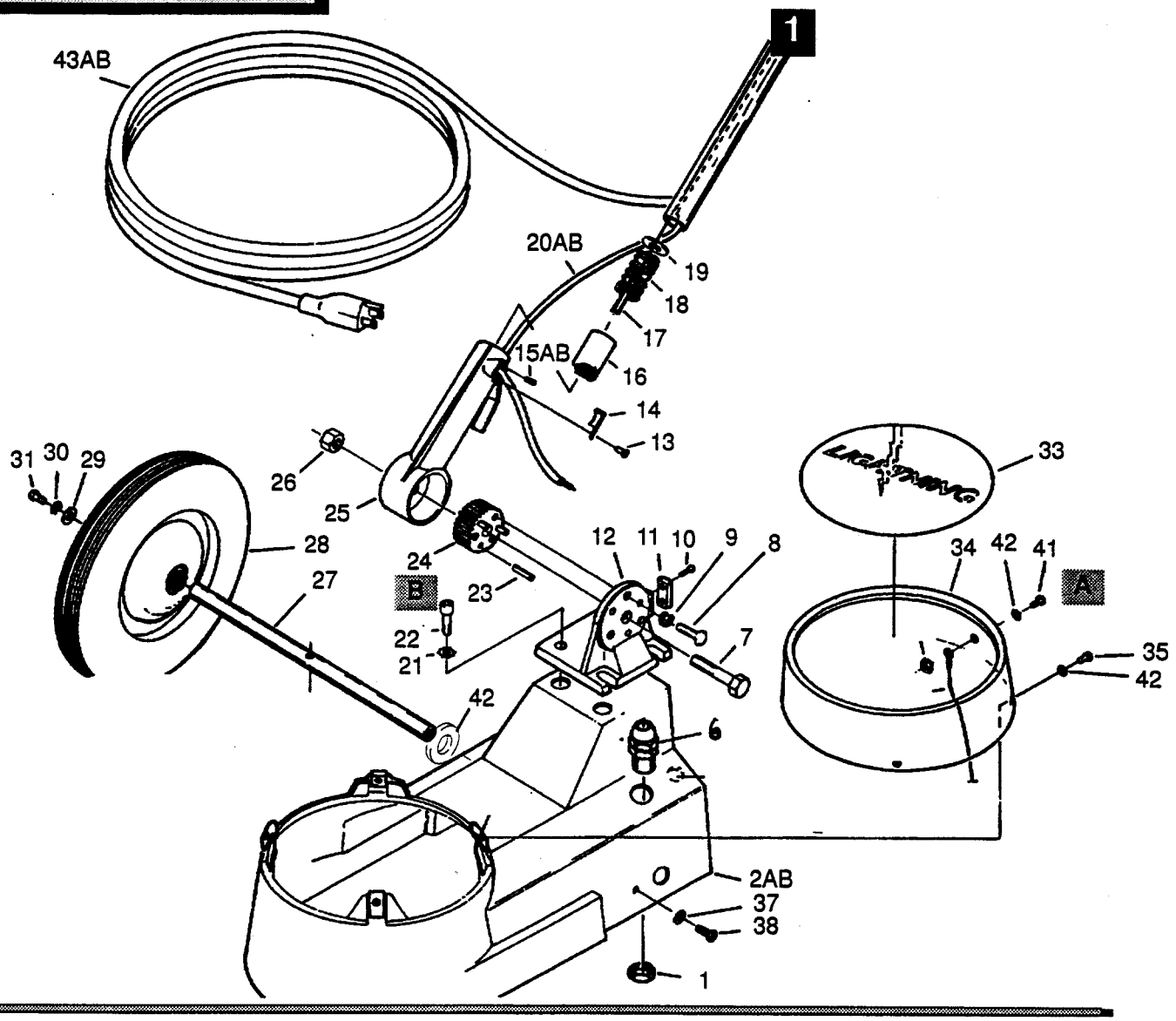


MOTOR, FRAME, DRIVER ASSEMBLY



KEY	PART NO.	DESCRIPTION	KEY	PART NO.	DESCRIPTION
1	34171	Frame			
2	70335	Screw, 10-32 x 1/2 **PHTF**	26	70353	Screw, 10-32 x 3/4 **SHCS**
3	87016	Washer, **#10 Star**	27	3609	Gear End Shield
4	87025	Washer, 1/4 **Star**	28	7035	Screw, 10-32 x 1.25 **SHCS**
5	70329	screw, 1/4-20 x 314 PHTF	29A	53179	Motor, 115V w/o **Gearbox**
6	87067	Washer, 5/16 **Star**	29B	53180	Motor, 220-240V w/o Gearbox
7	70083	screw, 5/16-18 x 1 HHMS	30A	73391	**Stator** Asm, 115V
8A	14608	**Bumper,** L175-17	30B	73393	**stator** Asm, 220-250V
8B	14561	**Bumper,** L175-20	31	87013	Washer, 1/4 ID x **5/8** OD
9A	20071	Clamp, L175-17	32	70354	Screw. 1/4-28 x 7.50 HHCS
9B	20070	Clamp, L175-20	33	31060	End Shield
10A	73306	Shroud, L175-17	34	62262	**Plate, Motor** *Access*
10B	73304	Shroud, L175-20	35	70323	Screw. 10-32 x 1/4 **PHTF**
11A	02108	**Pad** Driver, L175-17	36	87105	Washer, 1.56 **OD**
11B	02107	**Pad Driver,** L175-20	37	87106	Washer, Thrust 1.50 OD
12	02106	**Plate, Clutch** L175	38	72064	Switch, Stationary
13	70043	Screw, 10-32 x 5/8 FHMS	39	70234	Screw, 10-32 x 3/8 **PHST**
14	36103	Gear Unit **Assembly**	40	09039	Bearing, Upper Motor
15	36102	*Gear,* Cover Drive (131T)	41A	72071	Switch, **Centrifugal** 115V
16	09040	Bearing, Drive Cover	41B	72065	Switch, **Centrifugal** 220-250V
17	09042	Bearing, **Motor** Lower	42A	67199	Rotor **Asm,** 115V (w/SW &BRG)
18	36100	*Gear.* m e t (58T)	42B	67200	Rotor ***Asm,*** 220-250V (w/SW & BRG)
19	36101	*Gear,* **Pinion** (13T)	**44**	27358	Capacitor, 240V 60Hz 20MFD **run**
20	09038	Bearing, **Motor** Lower	45	14639	Bracket, Capacitor
21	27353	cage. 3 Planet ***Gear***	46	70351	Screw, 10-32 x 3/8 HHTF w/star
22	09043	Bearing, **Rotating** Cover	47	27357	Capacitor, 110V 60Hz 341 **MFD** *start*
23	27351	Cover, Rotating	48	14624	Bracket, Capacitor
24	27352	coupling	49A	53168	Motor, 115V 1.5HP w/Gearbox
25	73392	**Spacer, Bearing**	**49B**	53168	**Motor.** 240V 1.5HP w/Gearbox

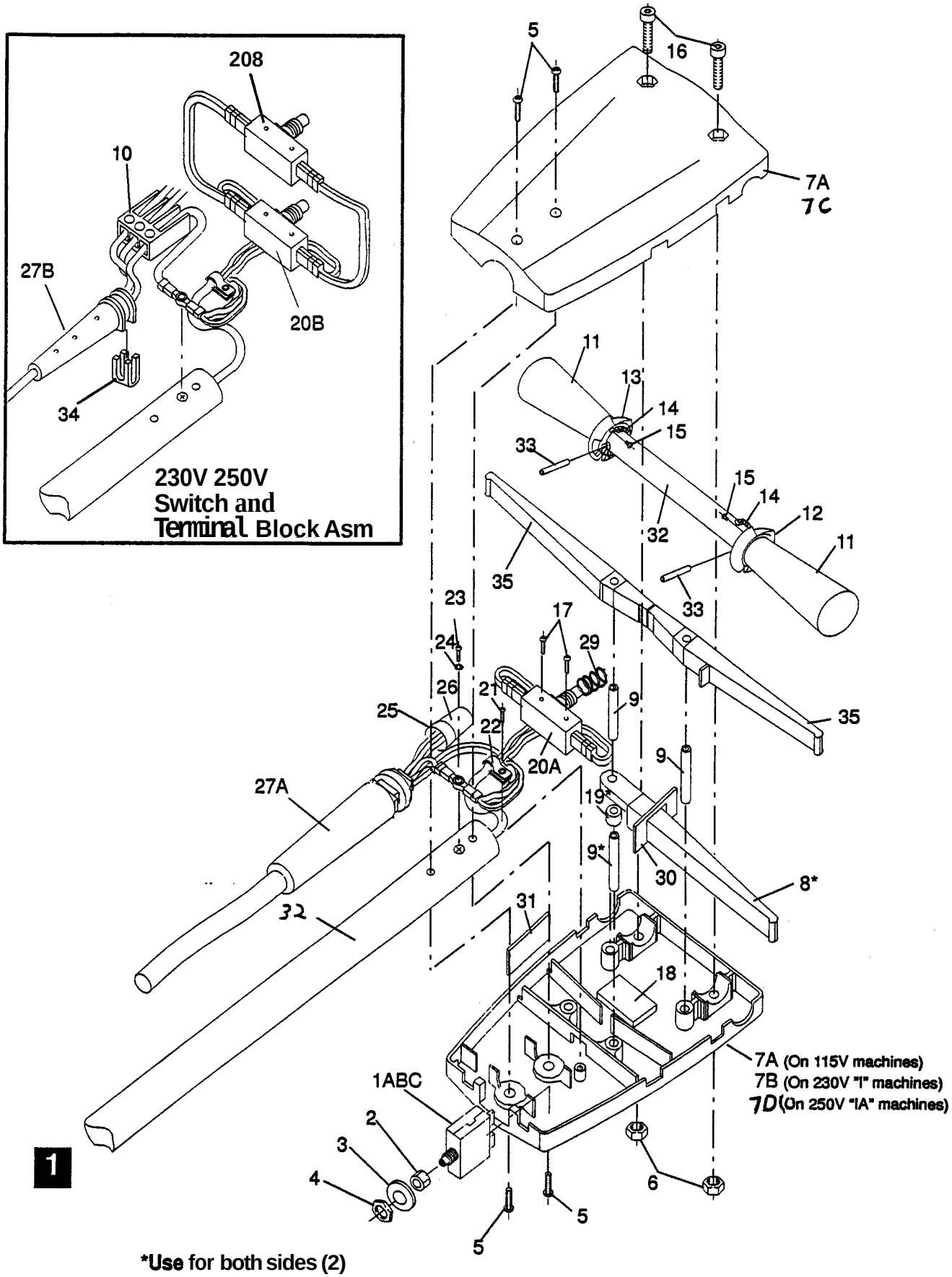
COVER ASSEMBLY



KEY	PART NO.	DESCRIPTION	KEY	PART NO.	DESCRIPTION
1	57040	Nut, 1/2 **NPT** Conduit			
2A	27331	cover, 115V	23	66114	Pin, 1/4 x 1.75
2B	27355	Cover, 220-25OV	24	36081	**Gear 40T**
			25	41143	Housing, **Handle** Pivot w/Hook
		..	26	57118	Nut, 1/2–13 UNC Nylock
			27	03055	**Axle**
6	73195	Straib **Relief.** 1/2 NPT	28	89064	Wheel
7	70347	**Screw,** 1/2–13 x 3 HHCS	29	87008	Washer, 1/4 ID x 1.25 OD
8	70083	Screw, 5/16–18 x 1 HHMS	30	87025	Washer, 1/4 **Star**
9	87083	Washer, 5/16 Split **Lock**	31	70020	screw. 1/4–20 x 1/2 HHMS
10	70071	Screw, 4.40 x 1/2 **PHST**	32	38153	Handle
11	14603	Bumper, L175 Handle Bracket	33	50401	**Label,** 175 **Lightning**
12	14532	Bracket, Handle Pivot	34	27338	Motor Cover
13	70177	Screw, 10–32 x 1/2 **FHMS**	35	70086	Screw, 10–24 x 1/2 **PHMS**
14	20069	Clamp, Cord	36	57028	Nut, 10–24 **Tinnerman**
15A	70330	Set Screw, 5/16–18 x 1/2	37	87018	Washer, **#10** Flat
15B	70482	Set **Screw,** 5/16–18 x 3/4 (L175)	38	70187	**Screw,** 10–24 x 1/2 PHST **-F-**
16	51114	Handle Position Lock	39	57104	Nut, 10–32 Hex w/ ***Star*** washer
17	27340	Handle Lock Cable	40A	88557	Wire. 115V Ground
18	73307	Spring, Polisher Lock	**40B**	88808	Wire, 220–250V Ground
19	87086	Washer, M10 x 30	41	70162	Screw, 10–32 x 3/8 PHMS
20A	88445	Wire Asm, 115V L175 Handle	42	87010	Washer, .578 ID x 1.060 DX .63
20B	88553	Wire **Asm,** 220-25OV L175	43A	23169	Cord Set, 1.5MM Euro x 50' Blk
21	87067	Washer. 5/16 ***Star***	43B	23167	**Cord** Set, **14/3** Std x 50' Ylw.
22	70345	Screw, 5/16–18 x 2 SHCS			

Rev. 1 5/2/94

HANDLE ASSEMBLY



*Use for both sides (2)

HANDLE ASSEMBLY

KEY	PART #	DESCRIPTION	QTY.	NOTES
1A	14700	Breaker 15A 250VAC 50VDC	1	
1B	14312	Breaker, 7A Circuit	1	All 230V "I" & 250V "IA"
2	27558	Collar, C i t Breaker	1	
3	50649	Label, Circuit Breaker	1	
4	57024	Nut, 3/8–27 Panel	1	
5	70384	Scr, 1/4–20 x 1/2 PHTR Pltd.	4	
6	57006	Nut, 1/4–20 Hex Pltd	2	
7A	41234	Housing, POL Handle (Logo)	2	Qty.1 on 230V "I" machines.
7B	41246	Housing, POL Handle Rear Mach'd	1	Used on 230V "I" machines only.
7 c	41244	Housing, POL Handle Top	1	Used on 250V "IA" machines
7d	41243	Housing, POL Handle Bottom	1	Used on 250V "IA" machines
8	51188	Lever, Height Polisher Handle	1	
9	66187	Pin, POL Handle	3	
10	76112	Terminal Block, 3 position	1	All 230V "I" & 250V "IA"
11	36139	Grip, Handle	2	
12	51192	Lock, Switch Lt. POL Handle	1	
13	51191	Lock, Switch Rt. POL Handle	1	
14	73571	Spring, Handle Lock	2	
15	70242	Scr, 4-40 x 1/4 PHMS Pltd.	2	
16	70451	Scr, 1/4–20 x 1.62 SHCS Pltd	2	
17	70455	Scr, #6-32 x 1.00 PPHTF Pltd.	2	
18	73400	Spacer, UL Switch	1	Used on 115V machines only.
19	73402	Spacer, Adj. Handle	1	
20A	72123	Switch, 25A SPST 125-250V Snap	1	All 115V machines.
20B	72119	Switch, Snap POL Handle 230V	2	All 230V "I" & 250V "IA"
21	70351	Scr, 10–32 x 3/8 HHTR w/Star	1	
22	20054	Clamp, 3/8 Nylon W C S A	1	
23	70335	Scr, 10–32 x 1/2 PHTR Grn/Grnd	1	
24	87016	Washer, #10 Lock Ext Star SS	1	
25	57003	Nut, Yellow Wire	1	All 115V machines.
26	99627	Electric Tape, 3/4 w/UL-CSA	1	All 115V machines.
27A	23167	Cord Set, 14/3 Std x 50' Yellow	1	All 115V machines.
27B	23169	Cord Set, 1.5mm Euro x 50' Blk	1	All 230V "I" & 250V "IA"
28	78288	Tube, Polisher Handle Merit	1	
29	73572	Spring, Switch Handle	1	
30	62251	Plate, Handle Lever	1	
31	62344	Plate, Lever Plug	1	
32	78270	Tube, Handle Polisher	1	
33	66199	Pin, Polisher Handle	2	
34	62399	Plate, Retainer 230V	1	All 230V "I"
35	51187	Lever, Switch Polisher handle	1	

TROUBLE SHOOTING CHART :

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power to machine	Dead electrical circuit breaker or fuse **box.**	Check building circuit
	Power switch failure	Test switch for continuity and replace if necessary.
	Faulty circuit breaker	Replace.
	Faulty power cord	Replace.
Electrical shock	Equipment not grounding	Follow grounding instructions exactly.
	Receptacle not grounded	Have an electrician inspect building's wiring.
	Internal wiring problem	Ensure that the machines wiring matches the appropriate wiring diagram. Replace any wires or components which are short circuiting.
Circuit breaker tripping	Faulty circuit breaker	Test circuit breaker for continuity. Replace circuit breaker if necessary.
	Mechanical problem	Higher amp draws indicate a mechanical problem, find the parts which are not moving as freely as they should, and repair or replace.

NOTES: